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GP/1627

PATENT
514485-3729
09/319,678
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Eschenmoser et al.
Serial No.	:	09/319,678
Filing Date	:	August 16, 1999
For	:	NONHELICAL SUPRAMOLECULAR NANOSYSTEMS
Examiner	:	J. Ricigliano
Group Art Unit	:	1627

745 Fifth Avenue, New York, New York 10151

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B.G.
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RESPONSE TO NOTICE OF NON-COMPLIANT AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Responsive to the Notice of Non-Compliant Amendment mailed June 7, 2001, indicating that a clean version of the replacement paragraph was not included in the amendment filed on April 30, 2001, we enclose a "Clean Version of Paragraph" as well as a "Version with Markings to Show Changes Made" in accordance with 37 CFR §1.121.

Please charge any additional fees that might be required to Deposit Account No. 50-0320.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP
Attorneys for Applicants

By Susan Lehnhardt
Susan K. Lehnhardt
Registration No. 33,943
Tel. (212) 588-0800

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CLEAN VERSION OF PARAGRAPH

In the specification:

Paragraph beginning at line 33 of page 10 has been amended as follows:

The phosphoramidite method was used to synthesize a pyranosyl-RNA strand which was partly self-complementary as hairpin and had 2' and 4' linker ends with the sequence linker-pr-GCGA$_5$CGC-linker, and the linker ends were linked to maleimido-gold clusters as described by Alivisatos, A.P. et al. (1996), supra. Then the pairing of 10 mM product to the hairpin was detected by spectroscopy in the standard buffer (0.15 M NaCl or 1 M NaCl, 10 mM Tris HCl, pH 7). Addition of one equivalent of the complementary strand pr-G(T$_5$)C proved by spectroscopy the opening of the hairpin and the separating of the gold clusters. The hairpin structure was restored simply by diluting the solution. It is possible in this way to expose a substrate to different reaction centers macroscopically in a controlled manner via the dilution (see Fig. 4).

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MARKED UP VERSION OF PARAGRAPH

In the specification:

Paragraph beginning at line 33 of page 10 has been amended as follows:

The phosphoramidite method was used to synthesize a pyranosyl-RNA strand which was partly self-complementary as hairpin and had 2' and 4' linker ends with the sequence linker-pr-GCGA$_5$CGC-linker, and the linker ends were linked to maleimido-gold clusters as described by Alivisatos, A.P. et al. (1996), supra. Then the pairing of 10 mM product to the hairpin was detected by spectroscopy in the standard buffer (0.15 M NaCl or 1 M NaCl, 10 mM Tris HCl, pH 7). Addition of one equivalent of the complementary strand pr-G(T$_5$)C proved by spectroscopy the opening of the hairpin and the separating of the gold clusters. The hairpin structure was restored simply by diluting the solution. It is possible in this way to expose a substrate to different reaction centers macroscopically in a controlled manner via the dilution (see Fig. 4).